



Dr Aïda DIONGUE-NIANG

Senegal candidate for IPCC WG I or WG II vice-chair

@ADiongueNiang



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Profile

Aïda Diongue-Niang is a meteorologist who has worked for 20 years at the interface of weather and climate research, service production and delivery, and policy. Her knowledge of the West Africa's climate, gained through research, observations and forecasts, has been used to interact with decision-makers, practitioners and communities to provide advice and improved weather and climate services for disaster risk reduction and climate adaptation. At the same time, she has continued in parallel to collaborate with academia, contributing to advance knowledge of the West Africa Monsoon features, building capacity and mentoring students and recently collaborating with the Senegalese Academy of Sciences to enhance climate change knowledge production.

IPCC Experience

2017-2023

Author for the Six Assessment Report

- Lead Author working Group I, Chapter 1
- Contributing author Working Group I, Chapter 8
- Member of the Core Writing Team, Synthesis Report

2015-2016

IPCC Senegal Focal point

Employment

2022-present
and 2017-2021

ANACIM, Senegal: Technical Adviser

Core responsibilities include providing advice on strategy and capacity building related to weather and climate research, forecasting and service delivery

2021-2022

Global Green Growth Institute, Senegal representation: Deputy Director- policy lead.

Core responsibilities include co-leading with the Presidency Delivery Unit and the Ministry of the Environment the design of the Green Senegal Emergence Plan with multiple stakeholders and sectors with the aim of placing climate change and biodiversity loss in the heart of the economy and building back better after Covid-19.

- 2014-2016 ANACIM: Director of the meteorological Branch
Core responsibilities included
- Proposing policy and Providing strategy of the meteorological branch, the annual work plan and budget,
 - Chairing the design and implementation of the National Framework for Climate Services, interacting with different sectors and stakeholders in order to co-design and propose improved climate services for climate adaptation
 - Representing the Meteorological Service and the Government (e.g. *effective* WMO Permanent representative, IPCC focal point, member of UNFCCC/COP official delegation)
 - Overseeing all activities related to weather and climate research, forecasts production, observation and data management and weather and climate services delivery, including for climate change adaptation.
- 2013-2014 ANACIM: Head of Forecasting and Observing Systems
Core responsibilities included
- Improving the forecasting products in quantity and quality
 - Improving their delivery to different to different type of users and for different sectors
- 2008-2013 Senegal Meteorological Agency, then ANACIM: head of Research and Development -Core responsibilities included
- Building research capacities to improve knowledge in West Africa climate and weather and forecasting tools
 - Mentoring Master and PhD Students in collaboration with universities in Senegal and France
- 2003-2008 Researcher- subjects include
- The West Africa Monsoon Climate variability and weather patterns
 - The development of Numerical Weather Prediction with limited area models for better predictions and forecasts the West African monsoon features
 - The development of Marine Forecasting tools and the establishment of marine forecast service delivery

Selected International Appointments

- 2020-2021 Member of the CLIVAR Monsoon Panel
- 2014-2018 Member of the WMO Executive Council Advisory Panel of Experts on Gender Mainstreaming Panel
- 2014-2018 Member of the Societal Economic Research Application (SERA) Working Group of the WMO World Weather Research Program (WWRP)
- 2015-2017 Member of the WMO Regional Association I (Africa) Management Team
- 2004-2009 Co-chair and Rapporteur for the Regional Association I (Africa) of the THORPEX program

Education

2001-2002	Postdoctoral position at the University of Leeds to investigate the ability of ECMWF and UK Met Office global numerical weather models to predict the key features of the West African Monsoon
2001	PhD on numerical studies of Convective systems and multi-scale interactions in the West African Monsoon System. Centre National de Recherches Météorologiques and Université Paul Sabatier, Toulouse, France
1996-1997	Post 5-year degree, “Mastère de Météorologie tropicale” with thesis on squall lines in the Sahel region “Ecole nationale de la Météorologie”, Toulouse, France
1995-1996	5-year degree “DEA Physique et Chimie de l’Environnement” with thesis on bush fires in Africa - Université Paul Sabatier, Toulouse, France
1991-1995	4-year degree in Science, equivalent to BSc and 1 st -year Master, Majors: mathematics, physics, fluid dynamics Université d’Aix-Marseille, France

IPCC-related outreach and capacity building activities

IPCC outreach events co-organized with the IPCC secretariat, September 2022, Dakar, Senegal, <https://apps.ipcc.ch/outreach/aboutevent.php?q=657>

- For the Students and scholars - University of Dakar
- For the Government and the private Sector
- At the African Ministerial Conference on the Environment
- At the LDC Ministerial and Experts strategy conference

Selected keynote speech, talk, panel discussion or training session, on IPCC Findings

- At the One Planet Fellowship Program Science Week, 12 June 2023, Montpellier, France, <https://www.agropolis-fondation.fr/One-Planet-Fellowship-Programme-735?lang=en>
- For African journalists in the framework of Terra Africa project, 29 May-2 June, 2023, Dakar and 6-8 December 2022 Abidjan, Côte d’Ivoire, <https://cfi.fr/en/project/terra-africa>
- At the Global Social Economy Forum, 1-6 May, Dakar, <https://dakar2023.gsef-net.org/>
- Project Management Institute, Senegal Chapter, annual conference on the theme “Access to energy for Africa's socio-economic development” 10 December 2022, Dakar, <https://www.pmisenegalconference.com/programme>
- At SBSTA Earth Information Day, COP27, 9, November 2022, Sharm el Sheikh, Egypt, <https://unfccc.int/event/earth-information-day-2022>
- At the workshop for non-State actors on the key issues related to climate organized by “ENDA-Energie”, 24 October 2022, Dakar
- At CoP27 preparatory meeting chaired by the Ministry of the Environment, 27 October 2022, Dakar
- For West African Journalists organized by Water Diplomat and Africa 21, 15-19 August 2022 Dakar

Some Selected publications

Diongue-Niang, A. and Françoise Guichard (2020). Multidecadal to Synoptic Scale Extremes within the West African Monsoon System. GEWEX Quarterly Vol. 30, No. 4, - Special Issue, Monsoons of the World : Addressing Global Challenges in Monsoon Research.

Descroix, L., Guichard, F., Grippa, M., Lambert, L. A., Panthou, G., Mahé, G., Gal, L., Dardel, C., Quantin G., Kergoat, L., Bouaïta, Y., Hiernaux, P, Vischel, T., Pellarin, T, Faty, B., Wilcox, C., Abdou M., Mamadou, I., Vandervaere, J., Diongue-Niang, A., ... Paturel, J. E. (2018). Evolution of surface hydrology in the Sahelo-Sudanian Strip: An updated review. Water (Switzerland), 10(6). <https://doi.org/10.3390/w10060748>

Sane, Y., Panthou, G., Bodian, A., Vischel, T., Lebel, T., Dacosta, H., Wilcox C., Ndiaye O., Diongue-Niang A., Diop Kane, M. (2018). Intensity-duration-frequency (IDF) rainfall curves in Senegal. Natural Hazards and Earth System Sciences, 18(7), 1849–1866. <https://doi.org/10.5194/nhess-18-1849-2018>

Panthou, G., Lebel, T., Vischel, T., Quantin, G., Sane, Y., Ba, A., Ndiaye O, Diongue-Niang A., Diop Kane, M. (2018). Rainfall intensification in tropical semi-arid regions: The Sahelian case. Environmental Research Letters, 13(6). <https://doi.org/10.1088/1748-9326/aac334>

Lafore, J. P., Beucher, F., Peyrillé, P., Diongue-Niang, A., Chapelon, N., Bouniol, D., ... Vischel, T. (2017). A multi-scale analysis of the extreme rain event of Ouagadougou in 2009. Quarterly Journal of the Royal Meteorological Society, 143(709), 3094–3109. <https://doi.org/10.1002/qj>.

Parsons, D. B., Beland, M., Burridge, D., Bougeault, P., Brunet, G., Caughey, J., Cavallo, S., Charron, M., Davies, H., Diongue Niang, A., ... Toth, Z. (2017). Thorpex research and the science of prediction. Bulletin of the American Meteorological Society, 98(4), 807–830. <https://doi.org/10.1175/BAMS-D-14-00025.1>